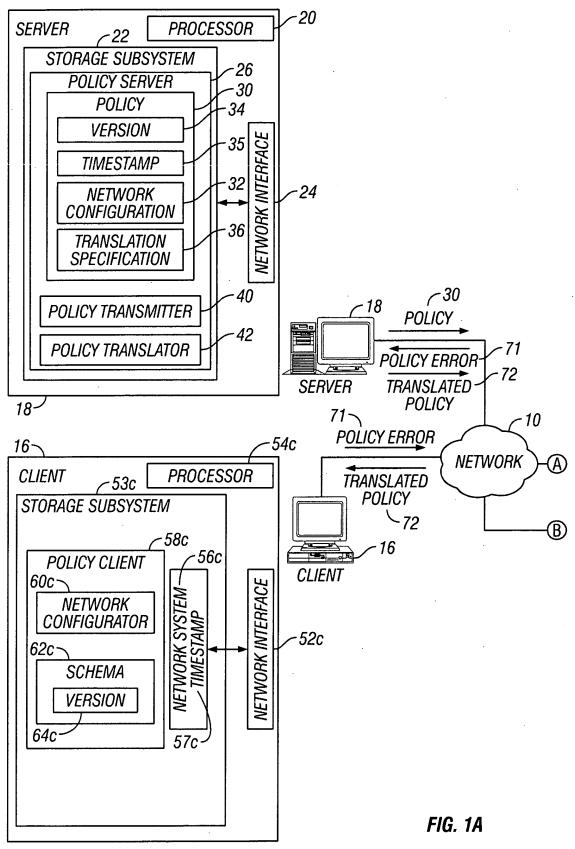
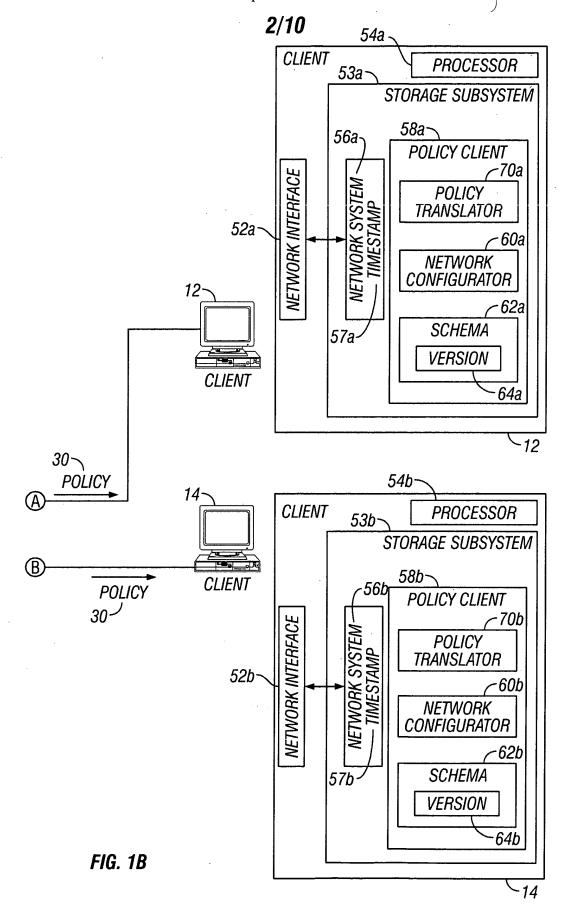
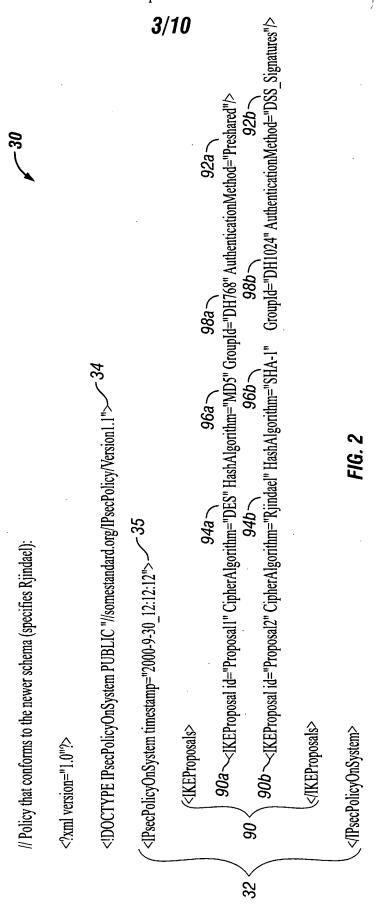


Page 1 of 10 Appl. No.: 09/704,384 Replacement Sheet



Page 2 of 10 Appl. No.: 09/704,384 Replacement Sheet





108 CipherAlgorithm (3DES | DES | IDEA | Blowfish | RC5 | CAST | Rjindael) #REQUIRED 116 CroupId (DH768 | DH1024 | DH1536 | ECC2N155 | ECC2N185) #REQUIRED RSA_Encryption | Revised_RSA_Encryption | Kerberos) #REQUIRED AuthenticationMethod (DSS_Signatures | Preshared | RSA_Signatures | // DTD schema Version 1.1 for IPsec implementations that support the new // encryption algorithm called Rjindael: 114 HashAlgorithm (MD5 | SHA-1 | Tiger) #REQUIRED <!ELEMENT IPsecPolicyOnSystem (IKEProposals)> <!ELEMENT IKEProposals (IKEProposal+)> <?xml version="1.0" encoding="UTF-16"?> timestamp CDATA #REQUIRED <!ELEMENT IKEProposal EMPTY> <!ATTLIST IpsecPolicyOnSystem 102∼id ID #REQUIRED-<! ATTLIST IKEProposal

- 130

```
// DTD schema for version 1.0 IPsec policy implementations (doesn't // include the new encryption algorithm called Rjindael):
```

<?xml version="1.0" encoding="UTF-16"?>

<!ELEMENT IKEProposal EMPTY>

<! ATTLIST IKEProposal

id ID #REQUIRED

132

134 Cipher Algorithm (3DES | DES | IDEA | Blowfish | RC5 | CAST) #REQUIRED

HashAlgorithm (MD5 | SHA-1 | Tiger) #REQUIRED

GroupId (DH768 | DH1024 | DH1536 | ECC2N155 | ECC2N185) #REQUIRED

AuthenticationMethod (DSS_Signatures | Preshared | RSA_Signatures

RSA_Encryption | Revised_RSA_Encryption | Kerberos) #Required

<!ELEMENT IKEProposals (IKEProposal+)>

<!ELEMENT IPsecPolicyOnSystem (IKEProposals)>

<!ATTLIST IPsecPolicyOnSystem

timestamp CDATA #REQUIRED

F1G. 4

6/10

36 -// XSLT file to transform the above policy into a policy conforming to the older // schema. This transformation simply replaces attribute "Rjindael" with "3DES". <?xml version="1.0" encoding="UTF-8"?> <!-- This stylesheet replaces the CipherAlgorithm Rjindael with 3DES, for IKE implementations that do not support Rjindael. --> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"> <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/> <xsl:output doctype-public-"//somestandard.org/IPsecPolicy/Version1.0"/> 146 <xsl:template match="/*"> <xsl:element name="IPsecPolicyOnSystem"> <xsl:copy-of select="@*"/> <xsl:element name="IKEProposals"> <xsl:apply-templates select="IKEProposals"/> </xsl:element> </xsl:element> </xsl:template> <xsl:template match="IKEProposals/IKEProposal"> <xsl:element name="IKEProposal"> <<xsl:copy-of select="@*"/> <xsl:if test="@CipherAlgorithm = 'Rjindael'"> 142a <xsl:attribute name="CipherAlgorithm">3DES</xsl:attribute> 142b </xsl:element> </xsl:template> </xsl:stylesheet>

7/10

<!DOCTYPE IPsecPolicyOnSystem PUBLIC "//somestandard.org/IPsecPolicy/Version1.0">

// Output resulting from applying the above transformation to the policy:

<?xml version="1.0" encoding="utf-8"?>

<IPsecPolicyOnSystem timestamp="2000-9-30_12:12:12">-

<IKEProposals>

KEProposal id="Proposal1" CipherAlgorithm="DES" HashAlgorithm="MD5" GroupId="DH768" AuthenticationMethod="Preshared"/>

IKEProposal id="Proposal2" CipherAlgorithm="3DES" HashAlgorithm="SHA-1" GroupId="DH1024" AuthenticationMethod="DSS_Signatures"/>

</IKEProposals>

</l></l></l></l></l><

FIG. 5B

Page 8 of 10 Appl. No.: 09/704,384 Replacement Sheet

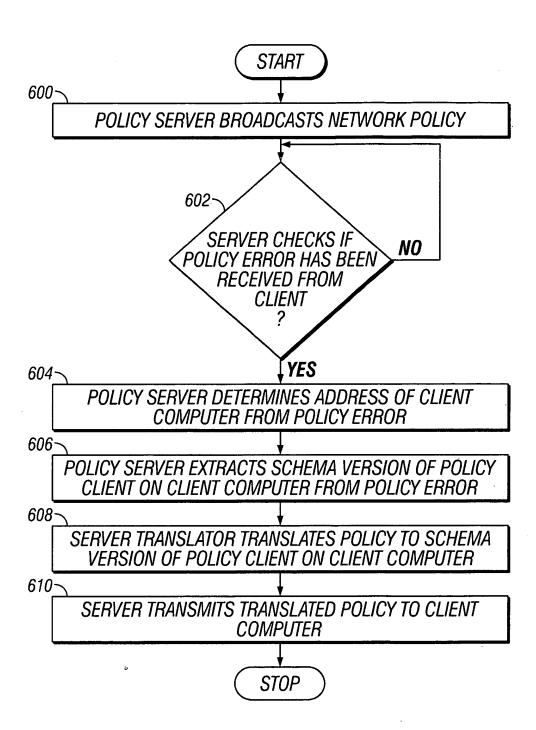


FIG. 6

Page 9 of 10 Appl. No.: 09/704,384 Replacement Sheet

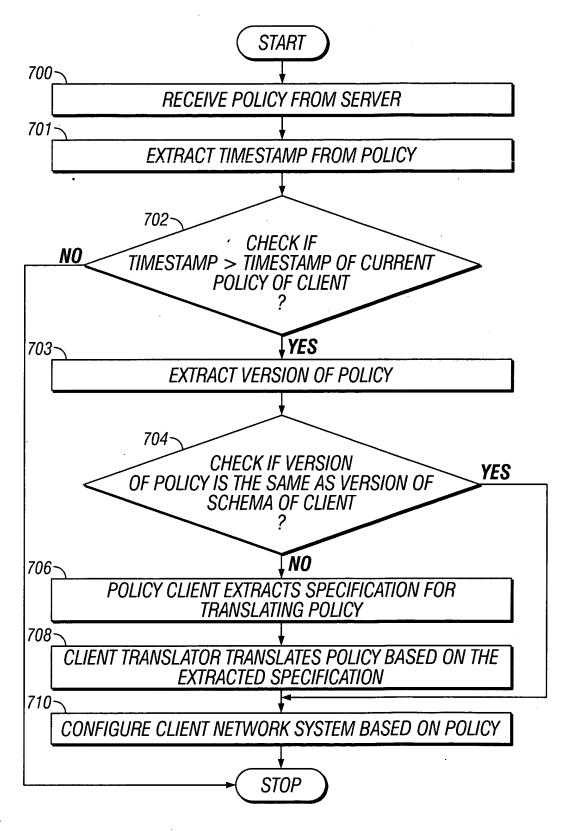


FIG. 7A

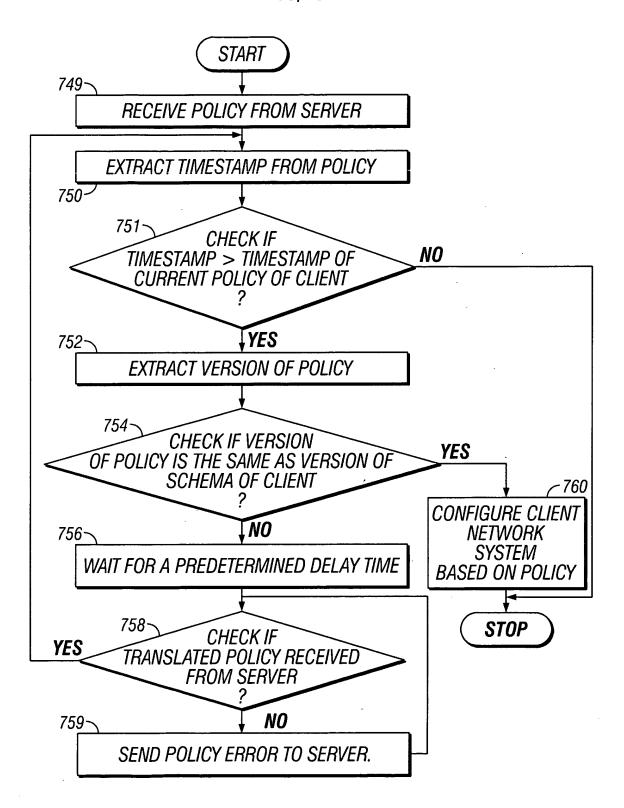


FIG. 7B